Contents of Volume 30

NUMBER 1 JANUARY 1992

^{13}C NMR Study of *N*-Acyl- and *N*-Sulphonyl-isatins and Their Ring-Opened Derivatives 1
E. C. ANGELL, D. ST. C. BLACK AND N. KUMAR

Detection of Connectivity Between Equivalent Carbons in a C_2 Molecule Using Isotopomeric Asymmetry: Identification of Hopeaphenol in *Carex pumila* 6
J. KAWABATA, E. FUKUSHI, M. HARA AND J. MIZUTANI

Interactions of Aminoglycosides with Phosphatidylinositol: a ^{15}N Nuclear Magnetic Resonance Study 11
A. SCHANCK, R. BRASSEUR, M.-P. MINGEOT-LECLERCQ AND P. M. TULKENS

Natural Abundance ^{17}O NMR Spectroscopic Study of Quinone Methides 16
D. W. BOYKIN, A. KUMAR AND S. M. SHEVCHENKO

^{1}H and ^{13}C NMR Spectra, ^{13}C NMR Relaxation Times and Molecular Modelling Studies of the Narcotic Agonist-Antagonist α-(−)-*N*-Propynylnormetazocine 20
M. E. AMATO, A. GRASSI, G. C. PAPPALARDO AND L. RADICS

^{1}H and ^{13}C Two-Dimensional NMR Study of Magainin 1 30
C. YU AND T.-H. YANG

Solid-State ^{2}H NMR Study of the Dynamics of the Methoxy Groups in Perdeuteriated Bis-(dimethoxythiophosphoryl) Disulphide 35
M. J. POTRZEBOWSKI

Measurements of Heteronuclear Dipolar Powder Patterns Due Only to Directly Bonded Couplings 42
T. NAKAI AND T. TERAO

^{13}C NMR Substituent Effects in Aliphatic Systems: Principal Component Analysis and Correlations with Electronegativities 45
R. I. ZALEWSKI, H.-J. SCHNEIDER AND U. BUCHHEIT

^{13}C and ^{19}F Nuclear Magnetic Resonance Spectra of Multisubstituted Methanes 58
Y. TAKEUCHI, N. ITOH, T. KOIZUMI, C. YAMAGAMI AND Y. TAKEUCHI

Natural Abundance ^{17}O NMR Spectra of Thio Analogues of Chromanones, Chromones, Flavanones and Flavones 65
H. DUDDECK AND A. LEVAI

Easy Implementation of Selective INADEQUATE and H-C-C Relay Experiments Using Heteronuclear Chemical Shift Filtering 68
K. E. KOVER, D. UHRIN, T. LIPTAJ AND G. BATTA

^{13}C and ^{1}H NMR Chemical Shift Assignments of 1- and 2-Alkylnaphthalenes (R = Me, Et, *i*-Pr, *t*-Bu) and Determination of Substituent Effects on ^{13}C and ^{1}H Chemical Shifts 73
L. ERNST AND P. SCHULZ

EPR Study of Pyrrolyl-1-oxyl and 3-Pyrrolinyl-1-oxyl Radicals 77
J. A. CRAYSTON, C. KAKOURIS AND J. C. WALTON

Reference Data
Carbon-13 NMR Spectra of Some 2-Ethylthio-4′-Substituted Acetophenones and Their Mono- and Di-Oxygenated Derivatives 81
P. R. OLIVATO, E. BONFADA AND R. RITTNER

ESR and ENDOR Study of 2,3-Dihydro-1-oxo-1λ^4,2,3,5-thiatriazol-3-yl Radicals 84
F. A. NEUGEBAUER

^{1}H and ^{13}C High-Resolution NMR Analysis of a Siloxane Polymer with Phenyl Benzoate Side-Chains 87
M. FINDEISEN AND H. ROTH

Book Reviews, 89; News and Events, 92; Papers in Press, 93

NUMBER 2 FEBRUARY 1992

Vicinal ^{13}C-^{13}C Coupling Constants in Bicyclic Monoterpenes 95
A. YU. DENISOV, A. V. TKACHEV AND V. I. MAMATYUK

Selective Long-Range ^{1}H-^{13}C Polarization Transfer in Nucleosides 101
W. H. GMEINER AND J. W. LOWN

Apramycin: Complete ^{1}H and ^{13}C NMR Assignments and Study of the Solution Conformation by ROESY Measurements 107
L. SZILAGYI AND Z. SZ. PUSZTAHELYI

^{19}F, ^{14}N and ^{15}N NMR Spectroscopic Studies on Triazadienyl Fluoride, N_3F 118
G. SCHATTE, H. WILLNER AND M. WILLERT-PORADA

Magnetic Field-Dependent Nuclear Spin–Spin Coupling 124
W. T. RAYNES AND S. J. STEVENS

Compounds with Bridgehead Nitrogen. 68—NMR Spectra and Stereochemistry of Perhydropyrido[1,2-*c*][1,3]oxazines 129
T. A. CRABB, S. T. INGATE AND T. G. NEVELL

Determination of the Conformation in Solution of Three 1,2-3,4-Di-*O*-methylenepyranoses: NMR and Molecular Mechanics Studies 133
B. GIRAUD, R. NOUGUIER, C. JAIME AND A. VIRGILI

Heterocyclic Compounds from Sugars. XIV—Structure Determination and Conformational Analysis of the Four Diastereoisomeric Methyl 3-Acetyl-5,5-dimethyl-2-(D-galactopentaacetoxypentyl)-1,3-thiazolidine-4-carboxylate 1-Oxides 137
K. E. KOVER AND Z. GYÖRGYDEÀK

ESR Studies of Deuteriated Polycyclic Aromatic Radical Cations 143
H. SANG AND H. WANG

ENDOR and EPR Studies on Polycyclic Aromatic Radical Cations 150
H. SANG, H. WANG, K. P. SUCH AND F. JENT

^{119}Sn NMR Characterization of the Series of Complex $[Pt(SnCl_xBr_y)_5]^{3-}$ Anions ($x + y = 3$) Extracted into Chloroform Using a Liquid Anion Exchanger 158
K. R. KOCH

^{31}P Hyperfine Interaction in a New Type of Phosphorus-Containing Iminoxy Free Radical. An ESR Study 163
Z. SIATECKI, P. J. CHMIELEWSKI AND A. JEZIERSKI

Solvent-Induced Variations in Nitrogen NMR Shieldings of *tert*-Butyl Isocyanide as a Probe for Solvent Polarizability-Polarity 169
M. WITANOWSKI, W. SICINSKA AND G. A. WEBB

Measurement of Inter-Proton Distances from Cross-Relaxation Rates Determined by a Selective Null Inversion-Recovery NMR Method 173
M. LIU, R. D. FARRANT AND J. C. LINDON

^{14}N and ^{15}N NMR Spectroscopic Characterization and Analysis of Cyclic Sulfur Imides 177
T. CHIVERS, M. EDWARDS, D. D. MCINTYRE, K. J. SCHMIDT AND H. J. VOGEL

Reference Data
^{13}C NMR Chemical Shift Assignments for Substituted 2-Azabicyclo[3.3.1]nonan-7-ones 183
N. CASAMITJANA, J. BONJOCH, J. GRACIA AND J. BOSCH

^{1}H and ^{13}C NMR Spectra of the Reverse Transcriptase Inhibitor (+)-(*S*)-4,5,6,7-Tetrahydroimidazo-9-chloro-5-methyl-6-(3-methylbut-2-enyl)imidazo[4,5,1-*jk*][1,4]benzodiazepin-2(1*H*)-thione (TIBO) 185
G. C. LEO, A. D. GAUTHIER, G. W. CALDWELL AND M. J. KUKLA

News and Events, 186; Book Reviews, 187; Papers in Press, 188

NUMBER 3 MARCH 1992

Second-Order Regression of ^{13}C Substituent Chemical Shifts with Taft's Sigma Constants 189
M. HOLIK

Structural Elucidation of Two Major Metabolites of Crisnatol in the Rat by NMR and Mass Spectrometry 200
J. P. SHOCKCOR, D. K. PATEL, R. L. JOHNSON, L. C. E. TAYLOR AND P. CHANDRASURIN

NMR Spectroscopic Characterization of Maleic Anhydride-α-Methylstyrene Adducts 207
H. KOMBER, V. STEINERT, S. ZSCHOCHE, M. RATZSCH AND G. GROSSMANN

NMR Multinuclear Study (^{13}C, ^{14}N, ^{17}O) in Indane-1,3-diones 216
M. V. PETROVA, E. LIEPINS, J. PAULINS AND E. GUDRINIECE

Quantification of Partial Structures in Aquatic Humic Substances by Volume Integration of Two-Dimensional ^{13}C Nuclear Magnetic Resonance Spectra. Comparison of One- and Two-Dimensional Techniques 221
J. LAMBERT, P. BURBA AND J. BUDDRUS

^{13}C Magic Angle Spinning NMR Investigations of Thiourea Inclusion Compounds 228
K. MULLER

Synthesis, Tautomerism and Stereochemistry of Spiropyrazolines 235
G. TOTH, A. LEVAI AND H. DUDDECK

Microcomputer Prediction and Assessment of Substituted Benzene ^{13}C NMR Chemical Shifts 240
R. A. HEARMON, H.-M. LIU, S. LAVERICK AND P. TAYLER

Nuclear Spin Relaxation in Proteins and Models at Low Temperature 249
E. A. MARSHALL AND R. G. BRYANT

^{1}H, ^{13}C and ^{17}O NMR Study of Chlorovanillins and Some Related Compounds 253
E. KOLEHMAINEN, K. LAIHIA, J. KNUUTINEN AND J. HYOTYLAINEN

Comparison of the Woessner and the 'Model-Free' Approaches for the Analysis of Carbon-13 Spin-Lattice Relaxation Data for Methyl Groups 259
D. G. GILLIES, S. J. MATTHEWS AND L. H. SUTCLIFFE

Chemical Shift Anisotropy and Indirect Coupling in SnO_2 and SnO 263
C. COSSEMENT, J. DARVILLE, J.-M. GILLES, J. B. NAGY, C. FERNANDEZ AND J.-P. AMOUREUX

Reference Data
Carbon-13 Nuclear Magnetic Resonance Study of 2-Halopicolines, Their *N*-Oxides and 2-Halo-4-nitropicoline *N*-Oxides 271
A. PUSZKO

Papers in Press, 273

NUMBER 4 APRIL 1992

^{1}H NMR Model Studies of Amphotericin B: Comparison of X-Ray and NMR Stereochemical Data 275
P. SOWIŃSKI, J. PAWLAK, E. BOROWSKI AND P. GARIBOLDI

Hydrogen-1 and Aluminium-27 NMR Study of $Al(ClO_4)_3$ in Aqueous Mixtures of Dimethylformamide and Urea 280
A. FRATIELLO, V. KUBO-ANDERSON, S. AZIMI, C. FOWLER, E. MARINEZ, R. PERRIGAN, S. SHAYEGAN AND B. YAO

Investigation of Phase-Sensitive ^{13}C-Detected ^{13}C-^{1}H Shift Correlation Sequences with Partial and Full ^{1}H-^{1}H Decoupling and Partial Spectral Editing 287
K. A. CARPENTER AND W. F. REYNOLDS

Complete ^{1}H and ^{13}C NMR Spectral Assignment of Patchoulenone, a Tricyclic Sesquiterpene Ketone 295
A. HISHAM, V. WRAY, L. PIETERS, M. CLAEYS, R. DOMMISSE AND A. VLIETINCK

NMR and Theoretical Investigation of Dicyclopentadiene Derivatives 298
J. M. BAKKE, J. E. BRAENDEN AND J. KRANE

^{13}C, ^{15}N, ^{29}Si and ^{31}P NMR Study of *N*-Trimethylsilylaminophosphorus Compounds: Sign Determination of Coupling Constants and Application of Hahn-Echo Extended Pulse Sequences 304
B. WRACKMEYER, Ê. KUPČE, G. KEHR AND J. SCHILLER

^{17}O NMR Spectra of the 1,6-Anhydro-β-D-hexopyranoses and Related Compounds. Determination of Configurational Effects on the Chemical Shifts 312
J. LAUTERWEIN, J. SCHULTE, M. SCHUMACHER AND M. CERNÝ

^{1}H, ^{13}C and ^{17}O NMR Spectral Study of 4,1-Disubstituted Naphthalenes 320
S. PERUMAL, G. VASUKI, D. A. WILSON AND D. W. BOYKIN

Full Assignments of the ^{13}C and ^{1}H NMR Spectra of Azithromycin in Buffered D_2O and DMSO-d_6 327
R. J. BRENNAN AND J. BARBER

Lanthanide-Induced Shifts in the ^{17}O NMR Spectra of 1,6-Anhydro-β-D-hexopyranoses. Evidence for Tridentate Complexing 334
J. SCHULTE AND J. LAUTERWEIN

Substituent Effects on ^{1}H Chemical Shifts. I—Complete ^{1}H Chemical Shift Assignments of Methyl-Substituted Cyclic Systems 338
J. FISHER AND M. J. GRADWELL

On-line Monitoring of the Krebs Cycle in Isolated Heart Mitochondria by ^{13}C NMR Spectroscopy 347
W. OFFERMANN, E. FIEDLER, C. HELMLE-KOLB, W. HOFER, H. KUGEL, T. REESE, W. WERK AND D. LEIBFRITZ

Reference Data
NMR Study of Some Anthraquinones from Rhubarb 359
K. DANIELSEN, D. W. AKSNES AND G. W. FRANCIS

Substituent Effects on the ^{13}C NMR Spectra of Ethyl *cis*- and *trans*-2-(*p*-Substituted-phenyl)-1-cyclopropanecarboxylates 361
Y. KUSUYAMA AND K. TOKAMI

Total Assignment of the ^{1}H and ^{13}C Spectra of Peridinin 362
S. MCLEAN, W. F. REYNOLDS, L. M. D. JOHN AND W. F. TINTO

Book Reviews, 364; News and Events, 365; Papers in Press, 366

NUMBER 5 MAY 1992

^{1}H NMR Study of the Intramolecular Rearrangements of the Complexes of 2-Hydroxypropane-1,3-diaminetetraacetic Acid with Metal Ions 367
R. SONG, F. LI AND L. LI

Conformation of Adenosine 5′-Phosphate in Solution, Deduced from Experimental and Simulated Proton T_1 Values 371
S. SHIBATA

Improved Strategy for Sequence-Specific ^{13}C NMR Assignments in [*d*(CGTACGTACG)]$_2$ 377
K. Y. WANG, G. J. HEFFRON, K. D. BISHOP, G. C. LEVY, A. M. GARBESI, L. TONDELLI, J. H. MEDLEY AND P. N. BORER

Correlation of Oxygen-17 Substituent-Induced Chemical Shifts: *meta*- and *para*-Substituted Methyl Benzoates 381
O. EXNER, H. DAHN AND P. PECHY

Reorientational Dynamics and Internal Mobility of [Lys^{8}]-Vasopressins by Analysis of ^{13}C, ^{15}N and ^{1}H NMR Relaxation 387
G. ZIEGER AND H. STERK

Inverse Detection of Broad Resonances: ^{15}N NMR Spectra of Boron–Nitrogen Compounds 393
B. WRACKMEYER, E. KUPCE, R. KOSTER AND G. SEIDEL

Phosphorus-31 NMR Studies of Polymer-Supported Highly Reactive Copper Reagents 398
R. A. O'BRIEN, A. K. GUPTA, R. D. RIEKE AND R. K. SHOEMAKER

Trimethylstannylboranes—Inverse Detection of Broad ^{119}Sn NMR Signals in Solution and Solid-State ^{119}Sn Cross-Polarization Magic Angle Spinning NMR 403
B. WRACKMEYER, E. KUPCE AND J. KUMMERLEN

Nuclear Magnetic Resonance Evidence for Radiation Damage of Saturated Phosphatidylcholine in Bilayers 408
M. CASU, A. LAI, G. ERRIU, S. ONNIS AND N. ZUCCA

Differential Rates of NH Proton Exchange Reactions of Two Isomeric Enamines 413
I. YAVARI AND A. HOSAIN-NIA

Solvent Effects on the ^{1}H-^{1}H, ^{1}H-^{19}F and ^{19}F-^{19}F Coupling Constants of Fluorobenzene and 1,2-Difluorobenzene 415
S. SUNTIOINEN AND R. LAATIKAINEN

Carbon-13 NMR Chemical Shift Substituent Effects 8—3-Monosubstituted 2-Methylpropenes 420
R. RITTNER AND M. E. F. BRAIBANTE

Stereochemistry of Crown Ethers. V—Solution Structure and Complexational Behaviour of Dibenzo Crown Ethers 425
S. STOSS, W. SCHROTH AND E. KLEINPETER

Variable-Temperature High-Resolution Carbon-13 Studies of Molecular Motion in Solid Bisphenol-F Diglycidyl Ether 434
D. CASARINI, R. K. HARRIS AND A. M. KENWRIGHT

Solid-State ^{13}C and ^{1}H NMR Study of Anomalous Acid Salts of Dibasic Carboxylic Acids 440
L. H. MERWIN AND S. D. ROSS

Conformational Studies of Benzophosphabicyclooctenes 449
G. TOTH, A. KOVACS, G. KEGLEVICH AND H. DUDDECK

Reference Data

^{13}C Chemical Shifts and ^{1}H-^{13}C Coupling Constants of *N*-Phenyl-, *N*-*p*-Fluorophenyl- and *N*-*o*-Nitrophenylpyrazoles 455
M. BEGTRUP, P. VEDSØ, P. CABILDO, R. M. CLARAMUNT, J. ELGUERO AND W. MEUTERMANS

Papers in Press, 460

NUMBER 6 JUNE 1992

Determination of Absolute Values of Dipolar Cross-Relaxation Rates for Ligands Bound to Macromolecules Using Double-Selective T_1 461
E. GAGGELLI, G. VALENSIN, T. KUSHNIR AND G. NAVON

Sequential Proton Saturation for the Heteronuclear 1D NOE Experiment 466
C. MUELLER, H. R. BIRCHER AND P. BIGLER

Atropisomerism of 1-Alkylcyclohepta[*b*]pyrrol-2(1*H*)-ones. Isolation of the Rotational Isomers of 1-(2,4-Dimethyl-3-pentyl)cyclohepta[*b*]pyrrol-2(1*H*)-one 476
Y. IKEDA, N. KATO, A. MORI AND H. TAKESHITA

^{195}Pt NMR Study of (η^5-Cyclopentadienyl)trialkylplatinum(IV) Complexes 481
L. D. BOARDMAN AND R. A. NEWMARK

^{1}H NMR and ^{19}F NMR Chemical Shifts of Fluorinated Retinals, Schiff Bases and Protonated Schiff Bases 490
L. U. COLMENARES AND R. S. H. LIU

^{13}C NMR Spectra of Substituted *o*-Nitroanisoles and *n*-Butyl *o*-Nitrophenyl Ethers 497
P. J. ZEEGERS AND M. J. THOMPSON

Spectroscopic Analysis of 3β-Acetoxy-8-hydroxy-8,11-epoxy-8,9-seco-6,11-cyclolanostane-7,9-dione 500
F. Y. FUJIWARA, V. G. REHDER AND A. J. MARSAIOLI

^{1}H and ^{13}C NMR Studies of the Proton Transfer in Complexes of Substituted Phenols with Trimethylamine *N*-Oxide 507
B. BRYCKI, B. BRZEZINSKI, G. ZUNDEL AND T. KEIL

Stereochemical Study of Anagyrine-Type Quinolizidine Alkaloids by ^{15}N and 2D NMR Spectroscopy 511
Z. LIU, L. YANG, Z. JIA AND J. CHEN

Regular and Relayed Heteronuclear Correlations by a Single Two-Dimensional Experiment Involving an RF Gradient 515
D. CANET, J. BRONDEAU, F. MONTIGNY AND F. HUMBERT

Stereochemical Study of Imines and Their *N*-Borane Adducts by ^{1}H, ^{11}B, ^{13}C and ^{15}N NMR 520
A. ARIZA-CASTOLO, M. A. PAZ-SANDOVAL AND R. CONTRERAS

Multinuclear Magnetic Resonance and X-Ray Diffraction Studies of Aminonitropyridines 527
E. KOLEHMAINEN, K. LAIHIA, K. RISSANEN, D. RASAŁA AND R. GAWINECKI

Effect of pH on Carbon-13 NMR Spectra of *N*-Dodecyl-*N*,*N*-dimethylamine Oxide Solution 535
B. BRYCKI AND M. SZAFRAN

^{31}P and ^{13}C NMR Spectra of Cyclohexylphenylphosphines, Tricyclohexylphosphine and Triphenylphosphine 544
J. SCHRAML, M. CAPKA AND V. BLECHTA

New Pt$\cdots$H – N Bonds Characterized by ^{15}N-Filtered and 2D NOESY ^{1}H NMR Spectroscopy 548
P. S. PREGOSIN, H. RUEGGER, F. WOMBACHER, G. VAN KOTEN, D. M. GROVE AND I. C. M. WEHMAN-OOYEVAAR

Substituent-Dependent Conformational Changes in 6β-Substituted Codeine Derivatives 552
L. SZILAGYI, S. MAKLEIT, S. HOSZTAFI AND C. SIMON

Reference Data
^{15}N NMR Study of Tetrazoles 558
V. N. NAUMENKO, A. O. KOREN AND P. N. GAPONIK

^{13}C Nuclear Magnetic Resonance Studies on Pyrano- and Dihydropyrano-1,3-diphenylprop-2-enones 560
V. S. PARMAR, S. K. SHARMA, A. VARDHAN, R. K. SHARMA, S. GUPTA, S. MALHOTRA AND P. M. BOLL

Tautomerism of 2-Benzothiazolylmalonates and 2-Oxobenzodihydrothiazol-3-yl-malonates 563
E. SOLCANIOVA, T. LIPTAJ AND V. SUTORIS

Letter to the Editor
^{13}C Chemical Shift Assignments of Di-*n*-Butyl Sulfoxide and Di-*n*-Butyl Sulfone 565
P. H. BUIST AND D. M. MARECAK

Papers in Press, 569

NUMBER 7 JULY 1992

^{15}N NMR, ^{1}H NOE Difference Spectroscopy and Conformation of *N*-(*o*-Aminophenyl)-*N'*-Alkylureas 571
B. J. JEAN-CLAUDE AND G. JUST

High-Field ^{1}H and ^{13}C NMR Spectra of Synthetic Protostane Derivatives: Total Assignment by 2D NMR 579
Z. PARYZEK, J. MARTYNOW AND T. SHIMO

Comparison of Different 2D NMR Techniques for ^{13}C, ^{31}P Correlation 587
P. BAST, S. BERGER AND H. GUNTHER

Region-Selective Inverse-Detected Long-Range Heteronuclear Chemical Shift Correlation Using Shaped Pulses 595
R. C. CROUCH, T. D. SPITZER AND G. E. MARTIN

A Variable-Temperature ^{13}C Cross-Polarization Magic Angle Spinning NMR Study of Some Unusual Dynamic and Phase Properties of (±)-3,4-Di-*O*-acetyl-1,2,5,6-tetra-*O*-benzyl-*myo*-inositol, 'Jumping Crystals' 606
J. FATTAH, J. M. TWYMAN AND C. M. DOBSON

^{35}Cl Nuclear Quadrupole Resonance in 2,4- and 2,6-Dichlorobenzyl Alcohols 616
S. K. ROY, B. AMITHA AND J. UCHIL

Phenindamine and its Analogues and Precursors: NMR Evidence of Structure and Configuration 621
A. F. CASY, R. B. HUSSAIN AND C. UPTON

Spin-trapping Artifacts on Addition of Polyacrylonitrile and Poly(methyl methacrylate) to Dimethyl Sulphoxide 626
P. F. CHEETHAM, G. R. CUTTING AND B. J. TABNER

Concerted Use of Homo- and Heteronuclear 2D NMR in the Elucidation of the Structure of a Novel Pentaester of 19-Hydroxyingol from *Euphorbia Marginata* Seeds 632
S. K. BRANCH AND M. G. ROWAN

^{13}C NMR Spectra of Tricyclic Diaziridines and their Data-Base Forecasts 637
G. KAUPP AND S. N. DENISENKO

^{1}H and ^{13}C NMR Studies of Substituted Isoquinolinium Derivatives in Different Solvents 640
W. WERRA, D. HEBER AND U. HOLZGRABE

Complete Assignment and Conformational Studies of Tomatine and Tomatidine 645
W. WILLKER AND D. LEIBFRITZ

^{1}H and ^{13}C NMR Analysis of Brassinosteroids 651
A. PORZEL, V. MARQUARDT, G. ADAM, G. MASSIOT AND D. ZEIGAN

High-Resolution Solid-State ^{195}Pt Nuclear Magnetic Resonance in Hexachloroplatinates(IV) 658
S. HAYASHI AND K. HAYAMIZU

High-Resolution Proton-Detected 2D HEHAHA Correlation Experiments with Spin-Echo Discrimination of Long-Range Correlations 662
A. GIBBS AND G. A. MORRIS

ESR Spectroscopic Investigation of Some 4-Substituted-1,3,2-Dithiazolyl and -2,3,1-Dithiazolyl Radicals 666
Y.-L. CHUNG, S. A. FAIRHURST, D. G. GILLIES, K. F. PRESTON AND L. H. SUTCLIFFE

Tautomerism in Some Alkyl Carboxylates of Amino-Substituted-Dihydrobenzoxazepine Thiones and -Dihydrobenzodiazepine Thiones Studied by 2D NMR Spectroscopy. Some Stereochemical Effects on $^{2}J(C,H)$ and $^{3}J(C,H)$ Couplings 673
K. PIHLAJA, M. SIMEONOV, M. MICHALIK, K. PESEKE, V. SINNWELL AND J. VOSS

Reference Data
^{13}C NMR Spectra of Eudesmane Derivatives 678
J. A. MARCO, J. F. SANZ AND M. CARDA

Interpretation of the ^{13}C NMR Spectra of Thirteen Methoxycarbonylpyridines and Some of Their Derivatives 681
R. JOKELA

Complete Assignment of the ^{1}H, ^{13}C and ^{15}N Spectra of Bradykinin Derivatives 683
O. ZERBE, J. H. WELSH, J. A. ROBINSON AND W. VON PHILIPSBORN

Letter to the Editor
A Proposal Concerning the Units of the Reduced Nuclear Spin–Spin Coupling Constant 686
W. T. RAYNES

News and Events, 687; Papers in Press, 688

NUMBER 8 AUGUST 1992

High-Field NMR Study of the Tautomers Resulting from the Condensation of 2-Methylindole and Phenalenone in the Presence of *p*-Toluenesulphonic Acid 689
F. TORT, B. WAEGELL, J. P. ZAHRA, C. BERNASCONI, L. GERMANAUD, C. BESSIBES AND J. BOUNOURE

^{195}Pt and ^{1}H NMR Study of the Products of Hydrolysis of $Pt(L)X_2$, where L is an Ethylenediamine Derivative, and the Crystal Structure of [Pt(*N*,*N*-dimethylethylenediamine) (μ-OH)]$_2$(NO_3)$_2$ 697
F. D. ROCHON, R. MELANSON AND A. MORNEAU

Dynamics of Lysine Hydrochloride Dihydrate Measured by Carbon-13 NMR Spectroscopy 707
S. D. SWANSON AND R. G. BRYANT

Application of HMQC to the Measurement of $J(H,H)$ Homonuclear Coupling Constants 711
D. YANG, X. XU AND C. YE

NMR and ^{14}N NQR Spectra. Structure of the Crystalline Products from the Nitrosation of Phosphorylacetaldehydes 716
V. A. PAVLOV, J. A. S. SMITH AND T. A. ZJABLIKOVA

Synthesis and Evaluation of Fluorinated Calcium Chelators with Enhanced Relaxation Characteristics 723
L. A. LEVY, E. MURPHY, B. RAJU AND R. E. LONDON

Carbon-13 Relaxation Study of Motional Properties of Lacto-*N*-neotetraose in Solution 733
S. BAGLEY, H. KOVACS, J. KOWALEWSKI AND G. WIDMALM

^{13}C NMR Study of the Substituent Effects in *ortho*-Substituted Nitrobenzenes 740
D. RASAŁA AND R. GAWINECKI

Characterization of Symmetrical and Unsymmetrical Thiol-Disulfide Interchange Reactions by One- and Two-Dimensional Magnetization Transfer NMR Spectroscopy 746
D. A. KEIRE, W. GUO AND D. L. RABENSTEIN

^{1}H, ^{13}C and ^{17}O NMR Spectroscopic Study of Four Bicyclo[3.1.1]heptenes (Derivatives of α-Pinene) and Four Bicyclo[3.1.1]heptanes (Derivatives of β-Pinene) 754
K. LAIHIA, E. KOLEHMAINEN, P. MALKAVAARA, J. KORVOLA, P. MANTTARI AND R. KAUPPINEN

Demonstration of Bicontinuous Structures in Microemulsions Using Automatic-Mode NMR (Self-)Diffusion Measurements 760
K. P. DATEMA, J. A. BOLT-WESTERHOFF, A. JASPERS, J. G. R. DAANE AND L. A. M. RUPERT

Applications of Gradient-Selective COSY and DQCOSY to Brucine and Gibberellic Acid 768
T. A. CARPENTER, L. D. COLEBROOK, L. D. HALL AND G. K. PIERENS

ESR Spectroscopy of Some Dicyano-, Pyrazino- and Quinoxalino-1,3,2-dithiazolyl Radicals 774
Y.-L. CHUNG, S. A. FAIRHURST, D. G. GILLIES, G. KRAFT, A. M. L. KREBBER, K. F. PRESTON, L. H. SUTCLIFFE AND G. WOLMERSHAUSER

Assignment of the ^{1}H and ^{13}C NMR Spectra of Naphtho[1′,2′:4,5]thieno[2,3-*c*]quinoline Using Two-Dimensional NMR Spectroscopy 779
L. W. CASTLE, A. S. ZEKTZER AND M. D. JOHNSTON, JR.

Deuterium Isotope Effects on ^{13}C Nuclear Shielding of Amino and Acetamido Compounds. Tautomerism and Intramolecular Hydrogen Bonding 786
P. E. HANSEN, A. KOLONICNY AND A. LYCKA

Short Communication
Study of the Dynamics of Ferrocene Enclathrated in β- and γ-Cyclodextrins by One-Dimensional Switching-Angle Sample Spinning NMR Spectroscopy 796
F. IMASHIRO, D. KUWAHARA, N. KITAZAKI AND T. TERAO

Reference Data
^{13}C NMR Studies of α,ω-Bis(*p*-anisyl)alkanes and α,ω-Bis(3-iodo-4-methoxyphenyl)alkanes 798
G. L. ASLESON, K. K. CATLIN AND F. J. HELDRICH

Effect of *N*-Methylation on the Conformation of 2-Phenylbenzimidazole, 2-Phenylindole and Three Related Rotationally Constrained Indoles 800
F. AMAT-GUERRI, J. CATALAN, E. MENA AND F. FABERO

Sesquiterpenes. ^{13}C and ^{1}H NMR Chemical Shifts of New Thujopsane and Nootkatane Derivatives 803
P. WOLFF

NUMBER 9 SEPTEMBER 1992

Structural Studies in the Bicyclo[3.1.1]heptane Series by ^{1}H and ^{13}C NMR 807
A. Y. BADJAH-HADJ-AHMED, B. Y. MEKLATI, H. WATON AND Q. T. PHAM

Structural Elucidation of Disubstituted Nortricyclenes Through Vicinal ^{13}C, ^{1}H Coupling Constants 817
I. D. GRIDNEV, I. F. LESHCHEVA, N. M. SERGEYEV AND V. A. CHERTKOV

Determination of Long-Range ^{1}H-^{13}C Coupling Constants of *cis*-Verbenol by Modified 2D *J* Spectroscopy 823
T. PARELLA, F. SANCHEZ-FERRANDO AND A. VIRGILI

Conformational Equilibria of Ephedrine and Pseudoephedrine and Hydrogen Bonding 828
H. TSAI AND J. D. ROBERTS

***Ab Initio* Study of the ^{13}C NMR Chemical Shifts for Some Polyene Compounds as Models for the Chromophore of Rhodopsin** 831
M. WADA, M. SAKURAI, Y. INOUE AND R. CHUJO

Oxygen-17 NMR Study of Electronic and Steric Effects in Furan-2,3-dione Derivatives 837
M. HNACH, H. ZINEDDINE, R. FAURE AND J. P. AYCARD

Complete ^{1}H and ^{13}C NMR Assignments for Apramycin, Sisomicin and Some *N*- and *N,O*-Polyacetylated Aminoglycosides 841
G. I. ENEVA, S. L. SPASSOV, M. A. HAIMOVA AND J. SANDSTROM

^{13}C NMR Spectra of Linear Trimers of Buta-1,3-diene Obtained from the Ziegler–Natta Process 847
A. V. LUBNIN, I. S. PODKORYTOV AND L. S. BRESLER

Determination of the Resonance Frequency Ratio of the ^{31}P and ^{1}H NMR Resonance Shift Standards 85% Orthophosphoric Acid and Tetramethylsilane 850
H. T. EDZES

^{6}Li-^{15}N Heteronuclear Multiple Quantum Correlation (HMQC) Spectroscopy: Application to the Structure Determination of Lithium 2,2,6,6-Tetramethylpiperidide Mixed Aggregates 855
J. H. GILCHRIST, A. T. HARRISON, D. J. FULLER AND D. B. COLLUM

^{31}P-^{13}C Shift Correlated 2D NMR Spectra of the AA′X Spin System: Determination of P–P Coupling Constants and Their Relative Signs in Symmetrical Diphosphonates 860
H. BECKMANN, G. GROSSMANN AND G. OHMS

High-Field NMR Studies of *tert*-Butyl Cyanide in Liquid and Solid Phases 865
D. W. AKSNES, L. L. KIMTYS AND K. RAMSTAD

Organometallic Paramagnetic Camphor Complexes. EPR Investigation of Their Formation and Structures 871
A. REBMANN, M. MAURER, K. SCHEFFLER AND H. B. STEGMANN

Structural and Conformational Characterization of (*Z*)-17-[2-(Triphenylstannyl)vinyl]-4-estren-17β-ol Using 2D Proton Detected ^{1}H-^{13}C RELAY and 2D NOESY Spectroscopy 877
F. KAYSER, M. BIESEMANS, H. PAN, M. GIELEN AND R. WILLEM

Phosphorus ^{31}P Spin-Lattice Relaxation Times as a Tool for the Determination of the Structure of 1,3-Dithianes with P-Containing Substituents at the Anomeric Carbon Atom 883
M. MIKOŁAJCZYK, K. WROBLEWSKI AND P. P. GRACZYK

Long-Range ^{13}C-^{1}H Coupling Constants in 3-Carene and α-Pinene 886
A. YU. DENISOV, E. A. TYSHCHISHIN, A. V. TKACHEV AND V. I. MAMATYUK

Studies on Ferrocene Derivatives. VIII—^{1}H Nuclear Magnetic Resonance Studies of 1,1′-Bis(*o*-hydroxyphenyl)ferrocene 892
Y. OKADA AND T. HAYASHI

Application of DEFT and SEFT for Signal-to-Noise Ratio Enhancement and T_2-Selective Spectra in ^{29}Si MAS NMR of Zeolites 898
M. W. ANDERSON

Reference Data
Two-Dimensional NMR Analysis of Selected Photochromic Spiroindolinonaphthoxazines 905
V. MALATESTA, P. ALLEGRINI, C. NERI AND L. LANZINI

Carbon-13 Shielding Tensors for Metal Acetates 908
A. A. M. ALI AND R. K. HARRIS

^{1}H and ^{13}C NMR Spectroscopy of Substituted Bis-1,3,4-oxadiazoles 910
H. TASHTOUSH, M. AL-TALIB AND N. ODEH

Book Review, 913; Papers in Press, 914; Publisher's Note, 915

NUMBER 10 OCTOBER 1992

Two-dimensional NMR Studies on the Additivity Rules for Carbon-13 Chemical Shifts in Tetra-*n*-alkylammonium Halides 917
J. CHENG, A. XENOPOULOS AND B. WUNDERLICH

ESR Spin Probe Study of Water within Covalently Crosslinked, Dextran-based Microbead Hydrogels (Sephadex® G) 927
J. J. WINDLE AND R. SCHERRER

Quinazoline-Iodine Interaction as Studied by NMR in Nematic Solutions 940
N. SURYAPRAKASH, C. L. KHETRAPAL AND P. DIEHL

Conformation and dynamics in a Solution of an *N*-Quaternized Cinnamide Derivative: a Molecule Active as a UV Filter 944
C. ANSELMI, M. CENTINI, M. SCOTTON AND A. SEGA

^{1}H-Detected Studies of Geminal ^{29}Si-^{13}C Couplings: Dependence of Coupling Sign and Magnitude on Molecular Structure 950
E. KUPCE AND B. WRACKMEYER

Proton and Carbon Chemical Shift Assignment and Dynamic Investigation of the Macrolide Antibiotic Tylosin 954
C. ROSSI, A. DONATI, M. PIA PICCHI, M. R. SANSONI, G. CORBINI AND P. CORTI

Flip Angle Calibration of NMR Pulses 958
M. GOEZ

Natural Abundance ^{17}O NMR Spectra of Some Sulphinylimines and Isocyanates 962
C. O. DELLA VEDOVA, H. DUDDECK AND H.-W. PRAAS

η^5-Cyclopentadienyl Derivatives of Tin(II) Studied by Two-dimensional Multinuclear Magnetic Resonance in Solution and by ^{13}C and ^{119}Sn CP/MAS NMR in the Solid State 964
B. WRACKMEYER, E. KUPCE, G. KEHR AND A. SEBALD

The Solute Conformation of Opioid Ligands of the 4-Arylpiperidine Class: α-Promedol and Related Compounds 969
A. F. CASY AND F. O. OGUNGBAMILA

Two-dimensional NMR Spectra of Asbestinin Diterpenes Isolated from *Briareum Asbestinum* (Pallas). Total Stereochemical Assignment by Two-dimensional NMR Techniques 977
A. D. RODRIGUEZ

Electron Paramagnetic Resonance, ENDOR and TRIPLE Resonance Study of Some 9,10-Anthraquinone Radicals in Solution 987
M. VUOLLE AND R. MAKELA

Assignment of Proton NMR Resonances and Conformational Analysis of the K13CK Cystatin-like Peptide 992
C. SAMSOEN, E. LEBRUN, R. VAN RAPENBUSCH, D. DAVOUST AND G. LALMANACH

Structure of Manasse's Dimer from *endo*-2-Hydroxyepicamphor by NOE Difference Spectroscopy 996
M. R. BANKS, I. GOSNEY, K. J. GRANT, D. REED AND P. K. G. HODGSON

NMR Relaxation and ESR Spin Probe Studies of Some Surfactant Micelles 1000
P. J. BRATT, D. G. GILLIES, A. M. L. KREBBER AND L. H. SUTCLIFFE

Peptide Group Chemical Shift Computation 1012
J. HERRANZ, C. GONZALEZ, M. RICO, J. L. NIETO, J. SANTORO, M. A. JIMENEZ, M. BRUIX, J. L. NEIRA AND F. J. BLANCO

Conformational analysis Part 18—Lanthanide-induced Shift (LIS) Investigation of Some 2-Substituted 1,3-Dioxanes 1019
R. J. ABRAHAM, K. WALLACE, S. WILKINS AND F. SANCASSAN

Reference Data
Proton NMR Study on Rhamnolipids Produced from *Pseudomonas Aeruginosa* 1025
B.-Y. CHOE, N. RAMA KRISHNA AND D. G. PRITCHARD

Substituent-Induced Chemical Shift ^{13}C NMR Study of Substituted 2-Phenylthiazolidines 1027
R. UMARANI

Book Review, 1030; Letter to the Editor, 1031; Publishers Note, 1032; Papers in Press, 1033

NUMBER 11 NOVEMBER 1992

Fluorine Substituent Effects for Tryptophan in ^{13}C Nuclear Magnetic Resonance 1035
M. LEE AND R. S. PHILLIPS

Application of ^{1}H NMR Selective and Biselective Relaxation Times. III—Conformational Analysis of Quinidine in Solution 1041
T. SAI, N. TAKAO AND M. SUGIURA

Signs of ^{19}F-^{1}H and ^{19}F-^{13}C Spin-Spin Coupling Constants Mainly Transmitted Through Space 1047
I. D. RAE, J. A. WEIGOLD, R. H. CONTRERAS AND G. YAMAMOTO

Electron Spin Resonance Study of Spin-trapped Radicals from Gamma Irradiation of Fructans 1051
J. TRIOLET, J. RAFFI, J.-P. AGNEL, C. BATTESTI, C. THIERY AND P. VINCENT

Autoaggregation Phenomena in Quinine Solutions 1054
G. UCCELLO-BARRETTA, L. DI BARI AND P. SALVADORI

Hoechst 33258 and its Complex with the Oligonucleotide d$(CGCGAATTCGCG)_2$: ^{1}H NMR Assignments and Dynamics 1064
J. A. PARKINSON, J. BARBER, B. A. BUCKINGHAM, K. T. DOUGLAS AND G. A. MORRIS

Conformational Equilibria in the Solid State: Conformational Equilibrium in Bicyclo[3.3.1]nonane Derivatives Studied by Solid-State Spectroscopy 1070
F. G. RIDDELL AND M. ROGERSON

Proton NMR Investigation of Some Substituted 1,3-Thiazolidin-4-ones 1075
C. R. J. WOOLSTON, J. B. LEE, F. J. SWINBOURNE AND W. A. THOMAS

Structure Establishment by Two-Dimensional NMR Spectroscopy of the Product Obtained in the Reaction of MCPBA and Himachalol and Revised ^{1}H NMR Assignments for Himachalol 1079
P. K. AGRAWAL, A. W. FRAHM AND M. SCHNEIDER

Use of $^{3}J(^{13}C,^{1}H)$ in the Stereochemical Assignment of Lactonic Norbornene Derivatives 1084
T. PARELLA, R. CASAS AND R. M. ORTUNO

NMR of Terminal Oxygen. 9—^{17}O NMR of the P–O 'Double Bond': Phosphine Oxides, Phosphinates, Phosphonates, Acylphosphonates and Related Compounds 1089
H. DAHN, V. VAN TOAN AND M.-N. UNG-TRUONG

Spectral Assignment of 2″-O-β-D-Glucopyranosylsaikosaponin b2 by Two-Dimensional NMR Techniques 1097
L.-Z. LIN, L.-J. LIN, G. A. CORDELL, S.-Q. LUO AND H.-F. JIANG

Critical Evaluation of an Empirically Modified Karplus Equation 1104
E. OSAWA, T. OUCHI, N. SAITO, M. YAMATO, O. S. LEE AND M.-K. SEO

^{1}H and ^{13}C NMR Study of Novel Fused 1,2,4-Triazole Heterocycles 1111
Z. SZABO, F. KORODI AND G. BATTA

Unambiguous Structure Determination of Some Pyrazolo[1,5-*a*]pyrimidine Derivatives by Multinuclear NMR Spectroscopy 1117
S. CHIMICHI, B. COSIMELLI, F. BRUNI AND S. SELLERI

***Ab initio* ^{13}C Nuclear Shielding Calculations for Some Hydrocarbons using the GIAO Procedure** 1122
H. KUROSU, G. A. WEBB AND I. ANDO

Relative and Absolute Configurations of the Quinolizidine Alkaloids Anagyrine and Thermopsine and Assignment of the ^{1}H and ^{13}C NMR Spectra of Anagyrine 1125
D. J. ROBINS AND D. S. RYCROFT

Thermo- and Photochromic Dyes: Spiro(indolinebenzopyrans). 2—Detailed Assignment of the ^{1}H NMR Spectra and Structural Aspects of the Closed Form of 1,3,3-Trimethylspiro(indoline-2,2′-benzopyrans) 1128
S.-R. KEUM, K.-B. LEE, P. M. KAZMAIER, R. A. MANDERVILLE AND E. BUNCEL

Complete Assignment of the ^{1}H and ^{13}C NMR Spectra of 8-Hydroxy-7-methoxy-4-methyl-1α,4α,4aα,8β,8aα-tetrahydro-1,4-methanonaphthalen-5(1*H*)-one 1132
D. E. MINTER, A. P. MARCHAND AND S.-P. LU

Reference Data
^{13}C NMR Study of 1-Substituted Imidazoles 1137
F. BENEDINI, F. FERRARIO AND A. SALA

^{1}H and ^{13}C NMR Spectra of Some 2-Substituted 4,5-Dimethylfurans 1141
M. DANDAROVA AND D.VEGH

Carbon-13 NMR Spectra of 1-Substituted Prop-2-ynes and 1,4-Bis-Derivatives of But-2-yne 1145
A. BANERJI, P. SAHA, K. C. MAJUMDAR AND P. K. CHOUDHURY

Book Reviews, 1149; News and Events, 1150; Publisher's Note, 1151; Papers in Press, 1152

NUMBER 12 DECEMBER 1992

***E*, *Z* Isomerization Studies of Ethyl 2-Oxo-3-Indolinylidenecyanoacetates by ^{1}H NMR Spectroscopy** 1153
M. S. MORALES-RIOS, Y. MORA-PÉREZ AND P. JOSEPH-NATHAN

Solution Behaviour and Redistribution Reactions of Tetraorganodistannoxane Dimers 1158
V. K. JAIN, V. B. MOKAL AND P. SANDOR

A Pulse Sequence for T_1 Measurement by Inversion-Recovery in the Presence of Acoustic Ringing 1164
A. BAGNO

Algal Carotenoids 47—NMR Study of All-*Trans*-Peridinin, Including Complete ^{1}H and ^{13}C NMR Assignments 1169
J. KRANE, T. AAKERMANN AND S. LIAAEN-JENSEN

NMR Studies of Hindered Rotation and Thermal Decomposition of Novel 1-Aryl-3,3-dialkyltriazenes 1178
Th. LIPPERT, A. WOKAUN, J. DAUTH AND O. NUYKEN

Stereochemistry-Activity Relationships of ACE Inhibitors. Conformational Studies by ^{1}H and ^{13}C NMR of Perindopril and Selected Stereoisomers 1186
J. P. BOUCHET, J. P. VOLLAND, M. LAUBIE, M. VINCENT, B. MARCHAND AND N. PLATZER

Proton NMR Studies of *syn*- and *anti*-Tricyclo[5.1.0.0^{3,5}]octanes and Their Dichloromethyl Derivatives 1196
L. XU, U. H. BRINKER AND W. B. SMITH

Application of the Topological Analysis of ^{13}C Chemical Shifts to the Elucidation of the Electronic and Steric Features of Polyoxygenated Benzenes with Different Substituents. Simulation of the ^{13}C NMR Spectra 1203
V. I. DOSTOVALOVA AND L. A. FEDOROV

^{1}H and ^{13}C NMR Studies on the Antidepressant Drug Tianeptine 1212
N. PLATZER, J. P. BOUCHET, C. MALEN, C. LABRID AND E. MOCAER

Solid-State ^{31}P NMR Investigations of Unsaturated Phosphorus-Nitrogen-Sulphur Rings 1220
T. CHIVERS, M. EDWARDS, C. A. FYFE AND L. H. RANDALL

Use of Two-Dimensional NMR and Molecular Modelling for the Structure Determination of Novel Cyclophosphamide Derivatives: Diastereomers of 1-Aza-2-bis(2-chloroethyl)amino-3-oxa-2-oxo-2-phospha-7-thiabicyclo-[4.4.0]decane and -[4.3.0]nonane 1224
B. F. SCHMIDT, W.-C. TANG, G. EISENBRAND, C.-W. VON DER LIETH AND W. E. HULL

Structural Studies on Clarithromycin (6-*O*-Methylerythromycin A): Assignments of the ^{1}H and ^{13}C NMR Spectra in Organic and Aqueous Solutions 1241
A. AWAN, J. BARBER, R. J. BRENNAN AND J. A. PARKINSON

Simultaneous Measurement of One-Bond and Long-Range Carbon-Carbon Coupling Constants in Cembrene 1247
L. MA AND P. BIGLER

Carbon-13 Nuclear Magnetic Resonance Relaxation Study of Chymotrypsin Inhibitor 2 (CI-2) 1255
R. J. LEATHERBARROW AND S. J. MATTHEWS

Simple Estimation of the Conformational Homogeneity of 2,5-Disubstituted-1,3-dithianes by Means of Their ^{1}H NMR Spectra 1261
P. P. GRACZYK AND M. MIKOŁAJCZYK

Reference Data
NMR Spectra of Abieslactone and its 3- Keto Derivative 1266
A. V. TKACHEV

^{1}H and ^{13}C NMR Study of 2,3-Dicarboxymethyl-7-oxabicyclo[2.2.1]hepta-2,5-diene Derivatives 1268
A. BIGHELLI, F. TOMI AND J. CASANOVA

News and Events, 1270; Author Index, 1271; Volume Contents, iii; Papers in Press, xviii

SPECIAL ISSUE DECEMBER 1992

Guest Editor's Foreword S1
G. A. MORRIS

Editorial S2
P. LEWIS

β-NAD^{+} and its Stack Interaction S3
G. ZIEGER, R. KONRAT AND H. STERK

NMR Study of Complex Triquinanes and Bulleranes Derived from Photoisomerization of Aryl-Substituted Norbornan-2-ones S7
D. DE KEUKELEIRE, H. SHU-LIN AND A. DE BRUYN

Revised Assignment of the ^{1}H NMR Spectrum of the Quinolizidine Alkaloid Lupinine S15
D. S. RYCROFT, D. J. ROBINS AND I. H. SADLER

Determination by NMR Methods of the Structure and Stereochemistry of Astellatol, a New and Unusual Sesterterpene S18
I. H. SADLER AND T. J. SIMPSON

Coherent and Incoherent Magnetization Transfer in the Rotating Frame S24
T.-L. HWANG, M. KADKHODAEI, A. MOHEBBI AND A. J. SHAKA

Further Improvements in the FLOCK Sequence S35
K. A. CARPENTER, W. F. REYNOLDS, J.-P. YANG AND R. G. ENRIQUEZ

Assignment of the ^{1}H and ^{13}C NMR Spectra and Conformational Analysis of the Pyrrolizidine Alkaloid 13-*O*-Acetyldicrotaline S42
D. S. RYCROFT, I. R. STIRLING AND D. J. ROBINS

Two-Dimensional NMR Spectra of Hydrolysable Tannins which Form Equilibrium Mixtures S46
T. YOSHIDA, T. HATANO AND T. OKUDA

Two-Dimensional NMR Spectroscopy of Glycosides S56
H. C. KREBS AND G. G. HABERMEHL

Conformational Analysis. Part 19—Conformational Analysis of 6-Deoxy-6-fluoro-D-glucose (6DFG) in Solution S60
R. J. ABRAHAM, E. J. CHAMBERS AND W. A. THOMAS

Comparative Evaluation of Conventional 5 mm Inverse and Micro Inverse Detection Probes at 500 MHz S66
R. C. CROUCH AND G. E. MARTIN

Strategies for the Phase Editing of Relayed Responses in 2D HMQC-TOCSY Spectra S71
R. C. CROUCH, T. D. SPITZER AND G. E. MARTIN

Conformation and Dynamics of Glycoprotein Oligosaccharides as Studied by ^{1}H NMR Spectroscopy S74
H. VAN HALBEEK AND L. POPPE

Structure Elucidation by NMR Spectroscopy of Saccharolidin A, a Novel Antiparasitic Macrolide from *Saccharothrix aerocolonigenes* S87
A. G. SWANSON, R. A. MONDAY AND D. A. PERRY

C-19 Configurational Assignments in Some Morphine Derivatives by Homonuclear NOE S96
GY. BATTA, T. E. GUNDA, Z. SZABO, S. BERENYI, GY. GULYAS AND S. MAKLEIT

Solution Conformation of Mono- and Difucosyllactoses as Revealed by Rotating-Frame NOE-Based Distance Mapping and Molecular Mechanics and Molecular Dynamics Calculations S105
A. EJCHART, J. DABROWSKI AND C.-W. VON DER LEITH

A ^{13}C T_1 Study of Conformational and Molecular Mobility of Mono- and Difucosyllactoses S115
A. EJCHART AND J. DABROWSKI

Structural Analysis of Oligosaccharide Chains of Glycolipids by Two-Dimensional NMR S125
F. INAGAKI

Characterization of Oligosaccharides from the Non-Reducing Termini of Keratan Sulphate Chains S134
T. N. HUCKERBY, J. M. DICKENSON AND I. A. NIEDUSZYNSKI

Identification and *Ab Initio* Carbon-13 NMR Assignment of a Proanthocyanidin from *Prunus Jacquemontii* S142
G. PANT, A. K. NAUTIYAL, M. S. M. RAWAT, J. K. SUTHERLAND AND G. A. MORRIS

Papers in Press, S148